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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,427			Wendell P. Noble	M122-2378	7832
21567	7590	02/08/2006		EXAM	INER
WELLS ST				SCHILLINGER, LAURA M	
601 W. FIRST AVENUE, SUITE 1300 SPOKANE, WA 99201				ART UNIT	PAPER NUMBER
				2813	

DATE MAILED: 02/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

SK

_	Application No.	Applicant(s)					
	10/630,427	NOBLE, WENDELL P.					
Office Action Summary	Examiner	Art Unit					
	Laura M. Schillinger	2813					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on 26 Oc	ctober 2005.						
2a) ☐ This action is FINAL . 2b) ☒ This	•						
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>40-43</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>40-43</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/23/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 40-43 are rejected under 35 U.S.C. 102(e) as being anticipated by Yao et al ('089).

In reference to claim 40, Yao claims a method comprising:

forming an oxide isolation grid between silicon structures (Fig. 7 (95, 97, 98), at least a portion of the grid (98) surrounding the lateral edges of at least one of the structures, wherein an upper portion of the one of the structures is bare (94) (Fig. 7);

forming conductive material within the oxide isolation grid to form a conductive grid therein (Fig.8 (87,82, 99), and

removing selected portions of the conductive material grid to define interconnect lines within the oxide isolation grid(Col.7, lines: 60-68).

In reference to claim 41, Yao teaches the method of claim 40 of forming conductive lines of claim 40, wherein forming an oxide isolation grid comprises forming individual oxide isolation regions over a silicon substrate by trench and refill technique. (Fig.7 (97)).

In reference to claim 42, Yao teaches the method of forming conductive lines of claim 40, wherein forming an oxide isolation grid comprises:

the silicon structures comprise silicon-containing islands (94) over an insulative surface (95), and forming oxide isolation grid comprises forming oxide isolation regions between silicon-containing islands (Fig.7 (97)).

In reference to claim 43, Yao claims wherein forming the conductive grid within the oxide isolation grid comprises:

Etching into the oxide isolation grid to define a network of outwardly-exposed trenches running within the oxide isolation grid (Col.7, lines: 60-68);

Forming conductive material within and over the outwardly-exposed trenches to a degree sufficient to completely fill the trenches (Col.7, lines: 60-68); and

Planarizing the conductive material to isolate conductive material within the trenches and to define the conductive grid (Col.7, lines: 60-65).

Response to Arguments

Applicant's arguments filed 10/26/05have been fully considered but they are not persuasive. Applicant argues that the Yao fails to teach that a portion of the grid surrounds that

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lateral edges of one of the silicon structures, however this is not persuasive. Yao teaches this newly added limitation as cited above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M. Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

02/02/06

Laura M Schillinger Primary Examiner Art Unit 2813